

THE GENERA *CHILIANTHUS* BURCH. AND *BUDDLEJA* LINN.

By E. P. PHILLIPS.

In the "Flora Capensis" the two genera *Chilianthus* and *Buddleja* are upheld for a group of South African plants. The distinguishing characters as given in the Key are :—

Chilianthus—*Calyx* deeply lobed ; anthers exserted.

Buddleja —*Calyx* shortly lobed ; anthers included.

The species placed under the two genera may be distinguished, however, by a more easily recognised character, viz., a campanulate corolla-tube in *Chilianthus* and a cylindric corolla-tube in *Buddleja*.

In De Candolle's Prodrromus the genera are distinguished as follows :—

Chilianthus—*Calyx* 4-fid. *Corolla-tube* short. *Stamens* more or less exserted.

Buddleja —*Calyx* 4-toothed or 4-fid. *Corolla-tube* short or long. *Stamens* included.

In the "Genera Plantarum" it is stated under the genus *Chilianthus* —strongly allied to the genus *Buddleja* and differs principally on the exserted anthers. Solereder (Pflanzenfamilien) also notes that *Chilianthus* is very closely related to *Buddleja* but is distinguished by the inflorescence which is made up of numerous small flowers and also by the longer stamens. Marquard in a "Revision of the Old World Species of *Buddleja*" (Kew Bulletin 1930) does not mention the genus *Chilianthus* and its relationship to *Buddleja*. It is abundantly clear that all authors who have dealt with the two genera have been impelled to make mention of their close relationship.

In drawing up descriptions of the two genera for my revised edition of the "Genera of South African Flowering Plants", I had difficulty, after dissecting the material in the National Herbarium to distinguish satisfactorily the two genera. In specimens with exserted stamens some had the calyx shortly toothed, so it is clear that one of the distinguishing characters of *Chilianthus*, viz., a 4-fid calyx is not constant. The degree to which the anthers are exserted varies, e.g., in *C. corrugatus* the anthers are very little exserted.

Linnaeus founded the genus *Buddleja* on a South American plant (*B. americana*) and this, according to the figure given in the "Pflanzenfamilien", has an almost 4-fid calyx, a corolla with a campanulate tube

and included stamens. We are then left with the inclusion or exsertion of the stamens as a character by which to distinguish the two genera—a character which in the species placed in the genus *Chilianthus* is not constant. The conclusion is forced upon one that *Chilianthus* Burch. must be sunk under *Buddleja* Linn. In looking through recent volumes of the "Botanical Magazine" one finds that plants with a campanulate or a cylindric corolla-tube are regarded as species of *Buddleja* and while the South African species may be placed into two distinct groups on that character alone, it does not justify them being regarded as generically distinct.

The consequential name changes will be as follows :—

B. salicifolia Jacq. = *Chilianthus arboreus* A.DC.

B. corrugata (Benth.) Phil. = *C. corrugatus* (Benth.) A.DC.

B. lobulata (Benth.) = *C. lobulatus* (Benth.) A.DC.

B. dysophylla (Benth.) Phill. = *C. dysophyllus* (Benth.) A.DC.